

PTO/SB/106(8-96)

Approved for use through 9/30/98. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMETNT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CWB control number.

## Declaration and Power of Attorney For Patent Application

## 特許出願宣言書及び委任状

### Japanese Language Declaration

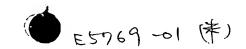
## 日本語宣言書

| 下記の氏名の発明者として、私は以下の通り宣言します。  | As a below named inventor, I hereby declare that:   |
|---|---|
| 私の住所、私書箱、国籍は下記の私の氏名の後に記憶された通りです。  | My residence, post office address and citizenship are as stated next to my name.  |
| 下記の名称の発明に関して請求短囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者(下記の氏名が一つの場合)もしくは最初かつ共同発明者であると(下記の名称が複数の場合)信じています。 | I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled |
|   | EMISSION CONTROL DEVICE FOR CYLINDER  |
|   | FUEL INJECTION ENGINE   |
| 上記発明の明細 <b>告(下記の間で×印がついていない場合は、</b><br>本書に添付)は、   | The specification of which is attached hereto unless the following box is checked:  |
| □月_日に提出され、米国出願番号または特許協定条約<br>国際出願番号をとし、<br>(該当する場合)に訂正されました。  | was filed on as United States Application Number or PCT International Application Number and was amended on (if applicable).  |
| 私は、特許請求短囲を含む上記訂正後の明細啓を検討し、内容を理解していることをここに表明します。   | I hereby state that I have reviewed and understand the contents of<br>the above identified specification, including the claims, as amended<br>by any amendment referred to above.   |
| 私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。                                       | I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.  |
|   |   |

#### Page 1 of 4

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.





PTO/SB/106(8-96)

Approved for use through 9/30/98. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMETNT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CWB control number.

## Japanese Language Declaration

(日本語宣言書)

私は、米国法典第35網119条 (a)-(d) 項又は365条(b) 項に基き下記の、米国以外の国の少なくとも一カ国を指定している特許協力条約365 (a) 項に基ずく国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示している。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

|  | that of the application on which priority is claimed. |  |                                      |
|--|---|--|--------------------------------------|
| Prior Foreign Application(s)<br>外国での先行出顧<br><u>2000-101178</u><br>(Number)<br>(番号) | <u>Japan</u><br>(Country)<br>(国名)                     | 31/March/2000<br>(Day/Month/Year Filed)<br>(出願年月日)   | Priority Not Claimed<br>優先権主張なし<br>□ |
| (Number)<br>(番号)   | (Country)<br>(国名)                                     | (Day/Month/Year Filed)<br>(出顯年月日)  |                                      |
| 私は、第35線米国法典119彡<br>特許出願規定に記载された権利をこ<br>、   | •               | I hereby claim the benefit under Title 3<br>Section 119(e) of any United States provis<br>below. | •                                    |
| (Application No.)<br>(出願番号)  | (Filing Date)<br>(出願日)                                | (Application No.)<br>(出願番号)  | (Filing Date)<br>(出願日)               |
| 利け 下旬の火団社曲等25億   | 190条に其いて下記の半回   | I hereby claim the henefit under Title   | 35 United States Code                |

私は、下記の米国法典第35編120条に基いて下記の米国 特許出願に記録された権利、又は米国を指定している特許協力 条約365条 (c) に基ずく権利をここに主張します。また、本 出願の各請求笕囲の内容が米国法典第35編112条第1項又 は特許協力条約で規定された方法で先行する米国特許出願に開 示されていない限り、その先行米国出願書提出日以降で本出願 書の日本国内または特許協力条約国際提出日までの期間中に入 手された、連邦規則法典第37編1条56項で定義された特許 資格の有無に関する重要な情報について開示義務があることを 認識しています。 I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of application.

| (Application No.) | (Filing Date) | (Status: Patented, Pending, Abandoned) |  |
|-------------------|---------------|--|--|
| (出願番号)            | (出顧日)         | (現況:特許許可済、係属中、放棄済)                     |  |
| (Application No.) | (Filing Date) | (Status: Patented, Pending, Abandoned) |  |
| (出願番号)            | (出顔日)         | (現況:特許許可済、係属中、放棄済)                     |  |

私は、私自身の知識に基ずいて本宣言哲中で私が行なう表明が真実であり、かつ私の入手した情報と私の信じるところに基ずく表明が全て真実であると信じていること、さらに故意になされた虚偽の表明及びそれと同等の行為は米国法典第18線第1001条に基ずき、罰金または拘禁、もしくはその両方により処罰されること、そしてそのような故意による虚偽の声明を行なえば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣誓を致します。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



PTO/SB/106(8-96) (Modulated spacing)
Approved for use through 9/30/98. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMETNT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

# Japanese Language Declaration (日本語宣言書)

委任状: 私は下配の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。 (弁護士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

Martin Fleit, Reg. No. 16,900; Herbert I. Cantor, Reg. No. 24,392; James F. McKeown, Reg. No. 25,406; Donald D. Evenson, Reg. No. 26,160; Joseph D. Evans, Reg. No. 26,269; Gary R. Edwards, Reg. No. 31,824; Jeffrey D. Sanok, Reg. No. 32,169; Richard R. Diefendorf, Reg. No. 32,390; and Paul A.Schnose, Reg. No. 39,361

含類送付先

Send Correspondence to:

Evenson, Mckeown, Edwards & Lenehan P.L.L.C. Suite 700 1200 G St., N.W., Washington, D.C. 20005

直接電話連絡先: (氏名及び電話番号)

Direct Telephone Calls to: (name and telephone number)

Telephone: ( 202)628-8800 Fax: ( 202)628-8844

| 唯一または第一発明者 |    | Full name of sole or first inventor Yoichi IIHOSHI  |  |
|------------|----|---|--|
| 発明者の署名     | 日付 | Inventor's signature Date  Soich Shahi 02/14/2001   |  |
| 住所         |    | Residence<br>Tsuchiura, Japan   |  |
| 国籍         |    | Citizenship<br>Japan  |  |
| 私杏箱        |    | Post Office Address<br>c/o Hitachi, Ltd., Intellectual Property Group<br>New Marunouchi Bldg. 5-1, Marunouchi 1-chome,<br>Chiyoda-ku, Tokyo 100-8220, Japan |  |

(第二以降の共同発明者についても同様に記憶し、署名をする こと) (Supply similar information and signature for second and subsequent joint inventors.)

Page 3 of 4



PTO/SB/106(8-96)

Approved for use through 9/30/98. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMETNT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

| 第二共同発明者                     |   | Full name of second joint inventor, if any Minoru OHSUGA |  |
|-----------------------------|---|--|--|
| 第二十回路明本の関々                  |   | Second inventor's signature Date                         |  |
| 第二共同発明者の署名<br>              | 日付<br>                                  | Orinory Olygy 02/14/200/                                 |  |
| 住所                          |   | Residence  |  |
|                             |   | Hitachinaka, Japan                                       |  |
| 国籍                          |   | Citizenship  |  |
|                             |   | Japan  |  |
| 私魯箱                         |   | Post Office Address                                      |  |
|                             |   | c/o Hitachi, Ltd., Intellectual Property Group           |  |
|                             |   | New Marunouchi Bldg. 5-1, Marunouchi 1-chome,            |  |
|                             |   | Chiyoda-ku, Tokyo 100-8220, Japan                        |  |
| 第三共同発明者                     | *************************************** | Full name of third joint inventor, if any                |  |
|                             |   | Toshiharu NOGI   |  |
| 第三共同発明者の署名                  | 日付                                      | Third inventor's sign@ure Date                           |  |
| N                           |   | Jame (de) 02/14/2001                                     |  |
|                             |   | Residence  |  |
| L±1/1                       | Hitachinaka, Japan                      |  |  |
| 国籍                          |   | Citizenship  |  |
| (二) 不自                      |   | ·  |  |
| Japan  Flood Office Address |   | Post Office Address                                      |  |
| 私書箱                         |   | c/o Hitachi, Ltd., Intellectual Property Group           |  |
|                             |   | New Marunouchi Bldg. 5-1, Marunouchi 1-chome,            |  |
|                             |   |  |  |
| Atoma II Edinard At         |   | Chiyoda-ku, Tokyo 100-8220, Japan                        |  |
| 第四共同発明者                     |   | Full name of fourth joint inventor, if any               |  |
|                             |   | Takuya SHIRAISHI   |  |
| 第四共同発明者の署名                  | 日付                                      | Fourth inventor's signature Date                         |  |
|                             |   | Takezza Shinaisti 02/14/2001                             |  |
| 住所                          |   | Residence  |  |
|                             |   | Hitachinaka, Japan                                       |  |
| 国籍                          |   | Citizenship  |  |
|                             |   | Japan  |  |
| 私書箱                         |   | Post Office Address                                      |  |
|                             |   | c/o Hitachi, Ltd., Intellectual Property Group           |  |
|                             |   | New Marunouchi Bldg. 5-1, Marunouchi 1-chome             |  |
|                             |   | Chiyoda-ku, Tokyo 100-8220, Japan                        |  |
| 第五共同発明者                     |   | Full name of fifth joint inventor, if any                |  |
|                             |   | Noboru TOKUYASU  |  |
| 第五共同発明者の署名                  | 日付 ·                                    | Fifth inventor's signature Date                          |  |
|                             |   | Noborn Jokungasu 02/14/2001                              |  |
| 住所                          |   | Residence  |  |
|                             |   | Hitachi, Japan   |  |
| 国籍                          |   |  |  |
|                             |   | Japan  |  |
| 私费箱                         |   | Post Office Address                                      |  |
| THE 478                     |   | c/o Hitachi, Ltd., Intellectual Property Group           |  |
|                             |   | New Marunouchi Bldg. 5-1, Marunouchi 1-chome             |  |
|                             |   | Chiyoda-ku, Tokyo 100-8220, Japan                        |  |
|                             |   | Chryoda-ku, Tokyo 100-0220, Dapan                        |  |



UNITED STATE: DEPARTMENT OF COMMERCE Patent and Tragemark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

AUGUST 23, 2001

PTAS

CROWELL & MORING, L.L.P. JAMES F. MCKEOWN P.O. BOX 14300 WASHINGTON, D.C. 20044-4300



## UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/11/2001 REEL/

REEL/FRAME: 011884/0692

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:** 

IIHOSHI, YOICHI DOC DATE: 02/14/2001

**ASSIGNOR:** 

OHSUGA, MINORU DOC DATE: 02/14/2001

ASSIGNOR:

NOGI, TOSHIHARU DOC DATE: 02/14/2001

**ASSIGNOR:** 

SHIRAISHI, TAKUYA DOC DATE: 02/14/2001

ASSIGNOR:

TOKUYASU, NOBORU DOC DATE: 02/14/2001

54. 1,5.

**ASSIGNEE:** 

HITACHI, LTD.

6, KANDA SURUGADAI 4-CHOME CHIYODA-KU, TOKYO, JAPAN 011884/0692 PAGE 2

SERIAL NUMBER: 09793402

PATENT NUMBER:

FILING DATE: 02/27/2001

ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



## ASSIGNMENT (譲渡証)



As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

EMISSION CONTROL DEVICE FOR CYLINDER FUEL INJECTION ENGINE invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fullyand entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

|     | INVENTOR(S)                         | Date Signed |
|-----|-------------------------------------|-------------|
|     | (発明者フルネームサイン)                       | (署名日)       |
| 1)  | Joichi Cihoolii                     | 02/14/2001  |
| 2)  | Ningu Oksuga                        | 02/14/2001  |
| 3)  | Minoru ONSUGA                       | 02/18/2001  |
| 4)  | Toshiharu NOGI<br>Tahuya Shiracishi | 02/14/200/  |
|     | Takuya SHIRAISHI                    | 02/14/200/  |
| 5)  | Noboru Johnyanu<br>Noboru Tokyyasu  | 02/11/201   |
| 6)  |                                     |             |
| 7)  |                                     |             |
| 8)  |                                     |             |
| 9)  |                                     | •           |
| 10) |                                     |             |